Geographic Information Systems (GIS)
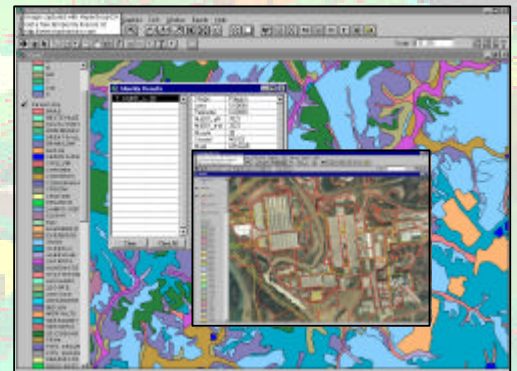
US Army Corps of Engineers
Baltimore District

- ▶ **Needs Assessment**
- ▶ **Data Collection**
- ▶ **Data Migration**
- ▶ **Database Development and Management**
- ▶ **GIS Development**
- ▶ **Mapping**

Only Geographic Information Systems (GIS) technology can truly keep up with the complex spatial data management requirements for installation planning and environmental monitoring and reporting. A GIS streamlines data management tasks and makes it easier to share crucial data throughout an organization. GIS technology reduces the cost of doing environmental business while giving the organization that uses it a competitive advantage in an ever-evolving marketplace. We utilize a wide variety of GIS hardware/software solutions for conducting powerful spatial analysis. Many of these GIS platforms are considered as industry standards.

A GIS stores information about the world as a collection of thematic layers that can be linked together by geography. This simple, but extremely powerful and versatile concept has proven invaluable for solving many real world problems from tracking project locations, determining the environmental characteristics of a site, and modeling potential decision impacts. The old adage "better information leads to better decisions" is as true for GIS as it is for other information systems. The information can be presented succinctly and clearly in the form of a map and accompanying report, allowing decision makers to focus on the real issues rather than trying to understand the data. Because GIS products can be produced quickly, multiple scenarios can be evaluated efficiently and effectively.

Our team is fully capable of applying GIS technology to a variety of projects from watershed delineation to installation solid waste management. The list of potential GIS applications is virtually unlimited, and as this technology advances, our team will be sure to remain on top of the game and ready to assist you with your GIS needs.

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